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Clarion Co. Ltd.

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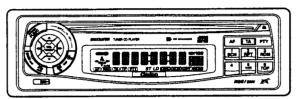
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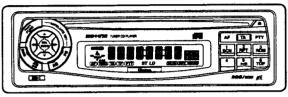
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Service Manual



Model DRX5375R



Model DRB4475R

AM/FM CD Player with CD Changer Control

Model

DRX5375R

(PE-2231E-B)

AM/FM CD Player

Model

DRB4475R

(PE-2270 E-A/illumination:Amber) (PE-2270 E-B/illumination:Green)

VARROTOO DELLA

■ SPECIFICATIONS

FM tuner section

Frequency range: 87.5 to 108MHz (0.05MHz steps)

MW tuner section

Frequency range: 531 to 1602kHz (9kHz steps)

LW tuner section

Frequency range: 153 to 279kHz (3kHz steps)

CD player section

System: Compact disc audio system

Usable disc: Compact disc

Frequency response:

10Hz to 20kHz (±1dB)

Signal to Noise ratio:96dB (1kHz,IHF-A)

Dynamic range:

95dB (1kHz)

Ditortion:

0.01%

General

Maximum power output:

30Wx4ch

Power supply voltage:

14.4V DC (10.8V to 15.6V)

Ground: Negative ground Speaker Impedance: $4\Omega(4\Omega \text{ to } 8\Omega)$

Current consumption:

Less than 10A

Dimensions:

178(W)x50(H)x155(D)mm

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Weight:

1.7kg | retter act towards (C

COMPONENTS

PE-2231E-B, PE-2270E-A/E-B Main unit

- * Specifications comply with EIA Standards.
- Specifications and the design are subject b change without notice for further improvement.

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection. If extended damage is caused due to negligence dur-

ing repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws,parts and wires are put back securely in their original position after repair.Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron,make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly(more than three times) to the same patterns. Also take care not to apply the tip with force.

- Turn the unit OFF during disassembly and parts replacement.Recheck all work before you apply power to the unit.
- Cautions in checking that the optical pickup lights up.
 The laser is focused on the disc reflection surface

through the lens of the optical pickup. When checking that the laser optical diode lights up,keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

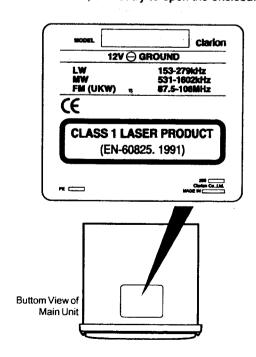
The actuator has a powerful magnetic circuit. If a magnetic material is put close to it.its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

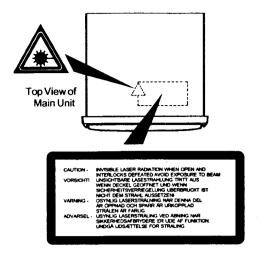
9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropylal cohol to lens paper and wipe the lens gently.

■CAUTIONS

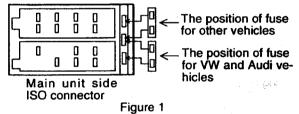
This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUST". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.



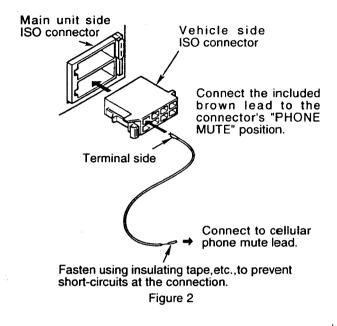


NOTES

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram. (Figure 1)



The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function. (Figure 2)



ERROR DISPLAYS

If an error occurs, one of the following displays is displayed. Take the measures described below to eliminate the problem.

- 119 38 193--- 1

Error Display	Cause	Measure	Model
CD ER2	A CD is caught inside the CD deck and not ejected	This is a failure of CD deck's mechanism.	PE-2231E-B PE-2270E-A
CD ER3	A CD cannot be played due scratches, etc.	Replace with non-scratched, non-warped-disc.	PE-2270E-B
CDCH ER2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.	
CDCH ER3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.	PE-2231E-B
CDCH ER6	A CD inside the CD changer cannot be played because it is loaded upside-down	Eject the disc then reload it properly.	

If an error display other than the ones described above appears, press the reset button.

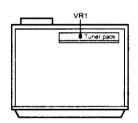
■ TROUBLESHOOTING

Problem	Cause	Solution
Power does not turn on.	Fuse is blown.	Replace with a fuse of the same amperage.
(No sound is produced.)	Incorrect wiring.	Wire properly.
Compact disc cannot be loaded.	Another compact disc is already loaded.	Eject the compact disc before loading the new one.
Sound skips or is noisy.	Compact disc dirty.	Clean the compact disc with soft cloth.
<u></u>	Compact disc is heavily scratched or warped.	Replace with a compact disc with no scratches.
Sound is bad directly after power is	Water droplets may from on the	Let dry for about 1 hour with the power on.
turned on.	internal lens when the car is	
: :	parked in a humid place.	
Nothing happens when buttons are	Microprocessor has maltunc-	Turn off the power, then press the OPEN button and
pressed.	tioned due to noise, etc.	remove the DCP.
Display is not accurate.		Press the reset button for about 2 seconds with a thin rod. Reset button
	DCP or source unit connectors	Wipe the dirt off with a soft cloth moistened with clean-
	are dirty.	ing alcohol.

■ ADJUSTMENTS

ltem	Procedure	Measuring instrument
S-meter	 Input the 98.1MHz/30dB μ(400Hz-MOD 30%)signal. Turn on the power swtch. and,Press the AF button and CH6 button at the same time.(TEST MODE) Adjust the reading of LCD indicator to [3000] (3.0V±0.2V) by VR1. 	SG

Adjust point



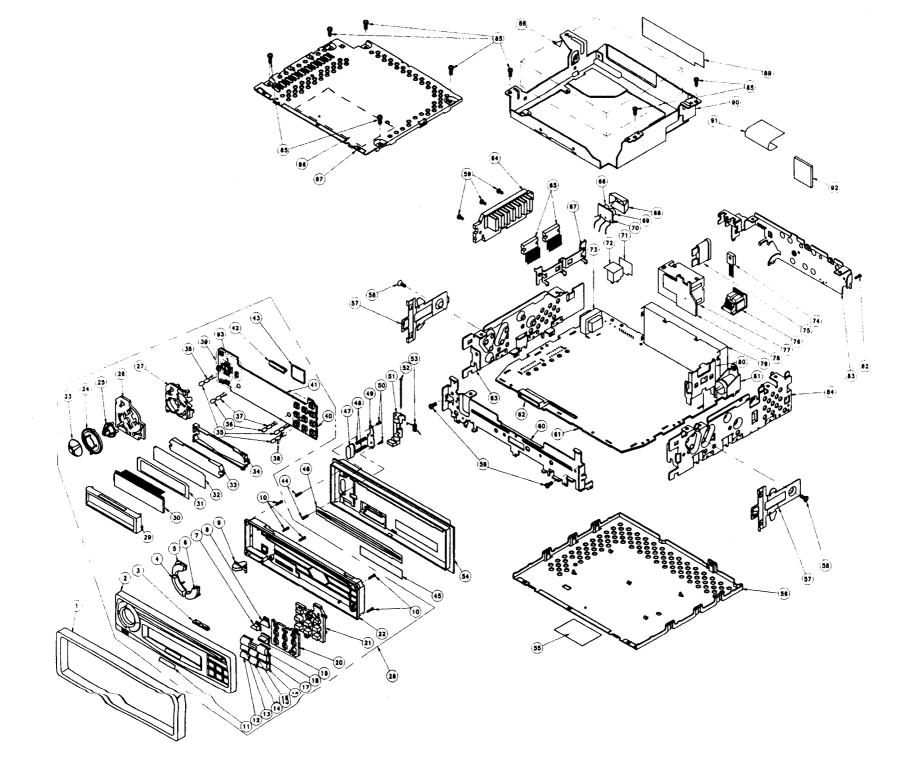
■EXPLANATION OF IC

■µPD178016GC-511-3B9 052-1308-00 Master Micro Computer
Outward Form

80 pins, plastic QFP
Terminal Description

2 KEY A/D 1 Imput terminal for detecting key pushed out of DCP/EECT/EUNCTION 3 S-METER 1 Connects FM S meter signal 4 RDS NOISE 1 Notin use 6 RDS DISCHG 0 RDS output terminal for FM RDS and SEEK detected by RDS NOISE 7 LCD SI 1 LCD SO 0 CLCD SCK 0 CLCD	Ter	minal Description		
CTEMP	No.	Symbol	1/O	Function
SMETER 1 Connects FM S meter signal	1	CD TEMP	Ī	it stops the mechanism as it judges the CD pickup is
ROS NOISE	2	KEY A/D	1	Input terminal for detecting key pushed out of DCP/ EJECT/FUNCTION
Solution	3	S-METER	Ī	Connects FM S meter signal
RDS DISCHG REquest signal input terminal reading status from slave microcomputer. When this terminal turns Low it detects the status reading requested C-BUS SI RC-BUS SI C-BUS SI C-BUS SI C-BUS SI C-BUS SI C-BUS Gata communication line C-BUS SCK RDS DISCHG Request signal input terminal reading status from slave microcomputer. When this terminal turns Low it detects the status reading requested C-BUS SI C-BUS SA C-BUS SI C-BUS SA C-	4	RDS NOISE	I	Noise level detection terminal for FM RDS and SEEK
CCD SIN	5	GND 2	_	Not in use
Serial data communication line with LCD driver LCD SCK CLD SCK O CLD SCK CLD SCK O CLD SCK	6	RDS DISCHG	0	RDS output terminal for discharging the voltage detected by RDS NOISE
1 stave microcomputer. When this terminal turns Low it detects the status reading requested 1 C-BUS SI 1 C-BUS SO 1 C-BUS SO 1 C-BUS SO 1 C-BUS SO 1 O 1 C-BUS SO 1 O 1 C-BUS SO 1 O 1 C-BUS data communication line 1 FM ON 1 O 1 Output terminal for AM ON signal 1 FM ON 2 Output signal for 5V power ON around micro computer 1 B + B REM 3 O Output signal for 5V power ON around micro computer 1 B + B REM 4 O Output signal for 5V power ON around micro computer 2 SOFT MUTE 5 O Output terminal for switching an FM SOFT MUTE constant 2 GND PORT 5 Power supply terminal 2 Output signal to cancel remote-protection circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON. 2 RDS MUTE 5 ROS MUTE 6 O Output terminal for switching an FM SOFT MUTE constant 2 REM OUT SAV 7 O Coutput terminal to output signal to cancel remote-protection circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON. 2 RDS MUTE 7 O Output terminal for noise reduction during follow-up motion 2 C LP F. SW 7 O Output "H" during auto tuning in AM/FM mode. 3 AM IFC 7 Not in use 7 PM IFC 7 Not in use 7 PM IFC 7 Not in use 8 AM IFC 7 Not in use 8 O Output SM Dudges SD ON by H. 8 EOO OOUTPUT ON	8 9	LCD SO LCD SCK	0	Serial data communication line with LCD driver
13 CBUS SO 14 CBUS SCK O O O O O O O O O O O O O O O O O O O	11	C-BUS SRQ	ī	Request signal input terminal reading status from slave microcomputer. When this terminal turns Low it detects the status reading requested
The first of the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output. The first of the first found starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output. The first of the first found starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output. The first found starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output.	13	C-BUS SO	0	C-BUS data communication line
17 SV REM	15	AM ON	0	Output terminal for AM ON signal
18 +B REM O Outputs Hi by power ON, supplying +B power ON, supplying high and the supply terminal 20	16	FM ON	0	Output terminal for FM ON signal
SYS MUTE	17	5V REM	О	Outputs signal for 5V power ON around micro computer
20 SOFT MUTE O Output terminal for switching an FM SOFT MUTE constant 21 GND PORT - GND 22 VDD PORT - Power supply terminal 23 AM LOCAL O SEEK and auto store. After receiving signal it returns to Hi output. 24 REM OUT SAV O Terminal to output signal to cancel remote-protection circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON. 25 RDS MUTE O RDS output terminal for noise reduction during follow-up motion 26 L.P.F. SW O Output terminal for switching time constant of FM L.P.F. 27 IF REQ O Output "H" during auto tuning in AM/FM mode. 28 AM IFC I Not in use 29 FM IFC I Not in use 30 VDD PLL - PLL power supply terminal 31 VCO H VCO L I Not in use 33 GND - GND 34 EO 0 ON In use 35 EO 1 O Not in use 36 IC - GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by Hi Detecting terminal for FM SD. Judges SD ON by Hi Detecting terminal for FM SD. Judges SD ON by Hi Detecting terminal for FM SD. Judges SD ON by Hi Detecting terminal for FM SD. Judges SD ON by Hi Detecting terminal for FM SD. Judges SD ON by Hi Detecting terminal for FM SD. Judges SD ON by Hi Detecting terminal for FM stereo indicator 40 PLL DI HI PLL SCK OPLL DO OPLL OPLL DO OPLL OPLL DO OPLL OPLL	18	+B REM	0	Outputs Hi by power ON, supplying +B power
SOPT MOTE O Constant	19	SYS MUTE	0	Output terminal for system mute signal
22 VDD PORT - Power supply terminal 23 AM LOCAL O Outputs Hi when the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output. 24 REM OUT SAV O Terminal to output signal to cancel remote-protection circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON. 25 RDS MUTE O RDS output terminal for noise reduction during follow-up motion 26 LP.F. SW O Output terminal for switching time constant of FM LP.F. 27 IF REQ O Output "H" during auto tuning in AM/FM mode. 28 AM IFC I Not in use 29 FM IFC I Not in use 30 VDD PLL - PLL power supply terminal 31 VCO H VCO L I Not in use 33 GND - GND 34 EO 0 EO 1 O Not in use 36 IC - GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by Hi Detection terminal for FM SD. Judges SD ON by Hi Detection terminal for FM SD. Judges SD ON by Hi Detection terminal for FM SD. Judges SD ON by Hi PLL SCK OPLL DO OPLL OPLL OPLL OPLL OPLL OPLL O	20	SOFT MUTE	0	Output terminal for switching an FM SOFT MUTE constant
AM LOCAL O Outputs Hi when the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output. Terminal to output signal to cancel remote-protection circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON. RDS MUTE O RDS output terminal for noise reduction during follow-up motion Output terminal for switching time constant of FM L.P.F. IF REQ O Output "H" during auto tuning in AM/FM mode. Not in use PM IFC I Not in use PLL power supply terminal Not in use RDS output terminal for switching time constant of FM L.P.F. IF REQ O Output "H" during auto tuning in AM/FM mode. Not in use PLL power supply terminal Not in use RDS output terminal for switching time constant of FM L.P.F. Not in use PLL power supply terminal Not in use RDS output terminal for Switching time constant of FM L.P.F. Not in use PLL power supply terminal Not in use RDS output terminal for AM/FM mode. I Not in use PLL power supply terminal Not in use RDS output terminal for AM/FM mode. I Not in use PLL power supply terminal Not in use RDS output terminal for AM/FM mode. PLL power supply terminal Not in use RDS output terminal for AM/FM mode. PLL power supply terminal Not in use RDS output terminal for AM/FM mode. PLL power supply terminal Not in use PLL power supply terminal Not in use PLL power supply terminal PLL power supply terminal Not in use PLL power supply terminal PLL power supply terminal PLL power supply terminal PLL power supply terminal PLL power supply terminal for AM/FM mode. PLL DI FL power supply terminal for AM/FM mode. PLL DI FL power supply terminal for AM/FM mode. PLL DI FL power supply terminal for AM/FM mode. PLL power supply terminal for AM/FM mode. PLD power sup	21	GND PORT		GND
AM LOCAL O SEEK and auto store. After receiving signal it returns to Hi output. Terminal to output signal to cancel remote-protection circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON. RDS output terminal for noise reduction during follow-up motion Output erminal for switching time constant of FM L.P.F. IF REQ O Output "H" during auto tuning in AM/FM mode. Not in use PLL power supply terminal VCO H VCO L Not in use Not in use O Not in use RDS output terminal for noise reduction during follow-up motion Output "H" during auto tuning in AM/FM mode. Not in use PLL power supply terminal Not in use O Not in use FM SD O Not in use To GND AM SD I Detection terminal for AM SD. Judges SD ON by Hi Detection terminal for FM SD. Judges SD ON by Hi Detection terminal for FM stereo indicator PLL DI PLL SCK PLL DO O PLL CE O Outputs "L" to turn on a power of CD mechanism.	22	VDD PORT	-	
24 REM OUT SAV O circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON. 25 RDS MUTE O RDS output terminal for noise reduction during follow-up motion 26 L.P.F. SW O Output terminal for switching time constant of FM L.P.F. 27 IF REQ O Output "H" during auto tuning in AM/FM mode. 28 AM IFC I Not in use 29 FM IFC I Not in use 30 VDD PLL - PLL power supply terminal 31 VCO H I Not in use 33 GND - GND 34 EO 0 ONot in use 36 IC - GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by Hi Detection terminal for FM SD. Judges SD ON by Hi Detection terminal for FM SD. Judges SD ON by Hi Detection terminal for FM SD. Judges SD ON by Hi PLL DI PLL SCK OPLL DO OPLL GO PLL DO OPLL GO O	23	AM LOCAL	o	Outputs Hi when the first round starts in LOCAL SEEK and auto store. After receiving signal it returns to Hi output.
Second Color	24	REM OUT SAV	0	Terminal to output signal to cancel remote-protection circuit latch. Outputs Hi pulse for 50 m Sec when power switch is turned ON.
28	25	RDS MUTE	0	RDS output terminal for noise reduction during follow-up motion
28 AM IFC 1 Not in use 29 FM IFC 1 Not in use 30 VDD PLL - PLL power supply terminal 31 VCO H 1 Not in use 32 VCO L 1 Not in use 33 GND - GND 34 EO 0 EO 1 O Not in use 36 IC - GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by H 38 FM SD 1 Detection terminal for FM SD. Judges SD ON by H 39 FM ST I Detecting terminal for FM stereo indicator 40 PLL DI I PLL data communication terminal with PLL IC 40 PLL DO O O 41 PLL CE O O 43 PLL CE O O 44 CD 8V REM O Outputs "L" to turn on a power of CD mechanism.	26	L.P.F. SW	0	Output terminal for switching time constant of FM L.P.F.
29 FM IFC 1 Not in use 30 VDD PLL - PLL power supply terminal 31 VCO H I Not in use 33 GND - GND 34 EO 0 EO 1 O Not in use 35 EO 1 EO 1 O Not in use 36 IC GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by Heat Detection terminal for FM SD. Judges SD ON by Heat Detection terminal for FM stereo indicator 39 FM ST I Detecting terminal for FM stereo indicator 40 PLL DI PL SCK PLL DO OO OO DETECTION TERMINAL STENDARD STEND	27	IF REQ	0	Output "H" during auto tuning in AM/FM mode.
30 VDD PLL - PLL power supply terminal	28	AM IFC	i	Not in use
31	29	FM IFC	1	Not in use
32 VCO L 1 Not in use 33 GND - GND 34 EO 0 EO 1 O Not in use 35 EO 1 O Not in use 36 IC - GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by Head of the properties of the proper	 	 	-	PLL power supply terminal
34 EO 0 EO 1 O Not in use 35 EO 1 O Not in use 36 IC - GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by Home SD SD SD ON by Home SD SD ON by Home SD SD SD ON by Home SD SD SD ON by Home SD			I	Not in use
35 EO 1 O Not in use 36 IC - GND 37 AM SD I Detection terminal for AM SD. Judges SD ON by Hi 38 FM SD I Detection terminal for FM SD. Judges SD ON by Hi 39 FM ST I Detecting terminal for FM stereo indicator 40 PLL DI I PLL SCK 40 PLL DI I PLL data communication terminal with PLL IC 42 PLL DO O O 43 PLL CE O O 44 CD 8V REM O Outputs "L" to turn on a power of CD mechanism.	33	GND	-	GND
37 AM SD I Detection terminal for AM SD. Judges SD ON by Hi 38 FM SD I Detection terminal for FM SD. Judges SD ON by Hi 39 FM ST I Detecting terminal for FM stereo indicator 40 PLL DI PLL SCK OO PLL DO OO PLL DO OO PLL DO OOO PLL DO OOO PLL CE OOOO OOO PLL CE OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO		i	О	Not in use
38 FM SD 1 Detection terminal for FM SD. Judges SD ON by H 39 FM ST I Detecting terminal for FM stereo indicator 40 PLL DI I 41 PLL SCK O 42 PLL DO O 43 PLL CE O 44 CD 8V REM O Outputs "L" to turn on a power of CD mechanism.	36	IC		GND
39 FM ST	37	AM SD	I	Detection terminal for AM SD. Judges SD ON by Hi
40	38	FM SD	1	Detection terminal for FM SD. Judges SD ON by Hi
41 PLL SCK O PLL DO O PLL data communication terminal with PLL IC 43 PLL CE O O PLL CE O O Outputs "L" to turn on a power of CD mechanism.	39	FM ST	I	Detecting terminal for FM stereo indicator
44 CD 8V REM O Outputs "L" to turn on a power of CD mechanism.	41 42	PLL SCK PLL DO	0	PLL data communication terminal with PLL IC
45 RDS +B REM O Spare terminal for RDS decoder power ON			+	Outputs "L" to turn on a power of CD mechanism.
	45	RDS +B REM	0	Spare terminal for RDS decoder power ON

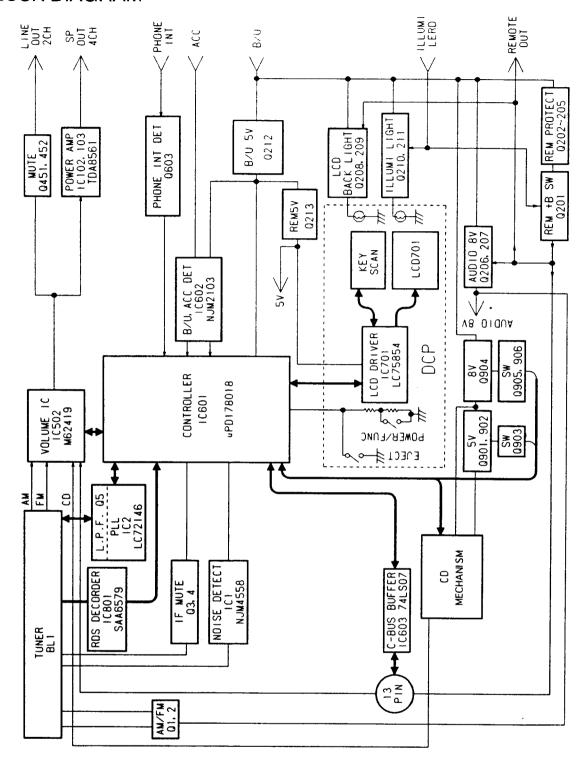
No. 46	Symbol	1/O								
70	BLINKING LED	()	Function LED flashing output signal							
	BEHAVING CCD		Outputs Low when the first round starts in LOCAL							
47	FM LOCAL	0	SEEK and auto store. After receiving signal it returns to Hi output							
48	CD 5V REM	o	Outputs "L" to turn on a power supply of CD IC and DAC IC.							
49 50	EVOL CLK EVOL DATA	o	Serial data communication line to electronic volume IC							
51	LDON	O	Outputs "L" to turn on a Laser diode.							
52	CHAK-SW	I	Terminal to detect the completion of CD DISC chucking. When the chucking SW is ON after DISC is loaded. Low is input							
			In DISC loading/EJECT mode, the condition of these two terminals are as follows:							
53	MCCW	0	Loading EJECT Brake Stop							
54	MCW	0	MCW Hi Lo Hi Lo							
			MCCW Lo Hi Hi Lo							
55	<u>c</u> .		Terminal to detect the condition of DISC loading.							
56 57	B A	I	chucking or others. When DISC is not inserted, Low is input for A/B/C terminal							
58	SQSO	I	Data input terminal to read SUB-Q data from CD IC							
59	SQCK	o	Clock signal output terminal to read SUB-Q signal from CD IC							
60	SENS	I	Controls CD by inputting a signal such as FZC, AS, TZC, SSTOP, BUSY, etc. from CD IC.							
61	XRST	0	Reset output terminal for CD/servo IC							
62	CLK	o	Clock output terminal for CD/servo IC control							
63	XLAT	О	Latch output terminal for CD/servo IC control							
64	DATA	O	Data output terminal for CD/servo IC control							
65	SCLK	o	Clock output to read coefficient from CD IC							
66	RDS DATA	I	Inputs data from RDS decoder							
67	RDS CLK	I	Clock signal input from RDS decoder							
68	B/U DET	I	When this terminal turns Low, micro computer detects the B/U OFF and turns micro computer to STOP mode, stopping oscillation							
69	ACC DET	i	ON/OFF detection terminal for ACC power supply							
70	GND	1	GND							
71	KEY INT	ı	Key insertion input terminal Low when EJECT key or FUNC(POWER) key pushed When this terminal turns Low, key A/D terminal detects the key pushed							
72	SCOR	I	Microcomputer takes in SUB-Q data immediately after inputting Hi pulse.							
73	PHONE INT	I	Input terminal for phone interrupt							
74	REG CPU	_	Regulator terminal for CPU power supply. Connected to pass con against noise							
75	GND	_	GND							
76 77	X2 X1	- I	Connecting terminal for oscillating crystal for main system clock							
78	REG OSC	-	Power supply regulator terminal for oscillator. Connected to pass con against noise							
79	VDD	-	Power supply terminal							
80	RESET	ı	Micro computer will stop by turning thist eminal to "Low"							



1 370-9006-32 OUTER-ES 1 2 370-5640-00 ESCUTCHEON (PE-2231E-B) 1 2 370-5640-04 ESCUTCHEON (PE-2270E-A/B) 1 3 335-4874-20 DOOR ILLUMI 1 4 382-4394-21 BUTTON [BAND/AM] (PE-2231E-B) 1 5 382-4399-11 BUTTON [BAND/AM] (PE-2270E-A/B) 1 5 382-4399-20 BUTTON (FUND/POWER) 1 6 382-4396-22 BUTTON [DN/UP] (PE-2231E-B) 1 7 382-4453-00 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 9 382-4470-20 BUTTON [EJECT] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 11 378-0148-00 BADGE (PE-2231E-B) 1 12 382-4421-22 BUTTON [4] 1 13 382-4412-22 BUTTON [5] 1 14 382-4422-21 BUTTON [2 RPT] 1 15 382-4419-21 BUTTON [2 RPT] 1 16 382-4419-21 BUTTON [3 RDM] 1 17 382-4414-21 BUTTON [3 RDM] 1 18 382-4414-21 BUTTON [3 RDM] 1 19 382-4413-20 BUTTON [3 RDM] 1 10 335-5306-00 ILLUMI PLATE [RIGHT] 1 21 335-5306-00 ILLUMI PLATE [RIGHT] 1 22 335-5296-00 REAR COVER 1 23 336-5394-20 KNOB 1 24 335-5397-00 JOB PLATE 1 25 335-5309-00 ILLUMI PLATE [LEFT] 1 27 335-5307-00 ILLUMI PLATE [LEFT] 1 28 940-1875A DCP-ASSY (PE-2231E-B) 1 29 345-4441-31 LAMP CAP [BLUET] 1 345-4441-31 LAMP CAP [BLUET] 1 35 345-4441-31 LAMP CAP [BLUET] (PE-2270E-A) 3 35 345-4441-31 LAMP CAP [GREEN] (PE-2270E-A) 3 36 345-4441-31 LAMP CAP [GREEN] (PE-2270E-A) 3 36 345-4441-35 LAMP CAP [GREEN] (PE-2270E-A) 3 36 345-4441-35 LAMP CAP [GREEN] (PE-2270E-A) 3 37 017-0441-00 PILOT LAMP (PE-2270E-A) 3 37 017-0441-00 PILOT LAMP (PE-2270E-A) 3 38 017-0441-00 PILOT LAMP (PE-2270E-A) 3 38 017-0444-00 PILOT LAMP (PE-2270E-A) 3 38 017-0444-00 PILOT LAMP (PE-2270E-A) 3 38 017-0444-00 PILOT LAMP (PE-2270E-A) 3 39 013-3812-11 TACT SWITCH 10 41 039-0889-00 SWITCH PWB 1	NO	PART NO.	DESCRIPTION	Q'TY
2 370-5640-00 ESCUTCHEON (PE-2231E-B) 1 2 370-5640-04 ESCUTCHEON (PE-2270E-A/B) 1 3 335-4874-20 DOOR ILLUMI 1 4 382-4394-21 BUTTON [BAND.AM] (PE-2231E-B) 1 5 382-4393-20 BUTTON [FUND/POWER) 1 6 382-4396-22 BUTTON [FUND/POWER) 1 6 382-4396-22 BUTTON [DN/UP] (PE-2231E-B) 1 7 382-4453-00 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 1 378-0134-00 BADGE (PE-2231E-B) 1 1 378-0148-00 BADGE (PE-2231E-B) 1 11 378-0148-00 BADGE (PE-2270E-A/B) 1 12 382-4421-22 BUTTON [4] 1 13 382-4418-21 BUTTON [5 /N] 1 14 382-4422-21 BUTTON [5 /N] 1 15 382-4418-21 BUTTON [5 /N] 1 16 382-4418-21 BUTTON [5 /N] 1 17 382-4422-21 BUTTON [6 /N] 1 18 382-4411-21 BUTTON [6 /N] 1 19 382-4413-20 BUTTON [6 /N] 1 10 392-4413-20 BUTTON [6 /N] 1 11 378-0134-00 BADGE (PE-2270E-A/B) 1 12 385-506-00 BADGE (PE-2270E-A/B) 1 13 380-506-00 BADGE (PE-2270E-A/B) 1 14 380-4422-21 BUTTON [6 /N] 1 15 381-411-21 BUTTON [6 /N] 1 17 382-420-21 BUTTON [6 /N] 1 18 382-4413-20 BUTTON [6 /N] 1 19 382-4413-20 BUTTON [7 /N] 1 10 392-4413-20 BUTTON [7 /N] 1 10 392-44				
2 370-5640-04 ESCUTCHEON (PE-2270E-A/B) 1 3 335-4874-20 DOOR ILLUMI 1 4 382-4394-21 BUTTON [BAND AM] (PE-2231E-B) 1 4 382-4394-11 BUTTON [BAND AM] (PE-2270E-A/B) 1 5 382-4396-22 BUTTON (FUND/POWER) 1 6 382-4396-22 BUTTON [DN/UP] (PE-2231E-B) 1 7 382-4453-00 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 9 382-4470-20 BUTTON [RELEASE] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 13 378-0134-00 BADGE (PE-2231E-B) 1 13 382-4418-21 BUTTON [1 SCN] 1 14 382-4421-22 BUTTON [1 SCN] 1 15 382-4419-21 BUTTON [5 → II] 1 15 382-4419-21 BUTTON [5 → II] 1 16 382-4423-21 BUTTON [6 TOP] 1 17 382-4420-21 BUTTON [6 TOP] 1 18 382-4411-21 BUTTON [7 SPPT] 1 19 382-4413-20 BUTTON [7 SPPT] 1 19 382-4413-20 BUTTON [7 SPPT] 1 19 382-4410-21 BUTTON [7 SPPT] 1 20 345-7817-21 SPONGE [RIGHT] 1 21 335-5296-00 REAR COVER 1 23 336-5298-00 JOB PLATE 1 24 335-5297-00 JOB PLATE 1 25 335-5298-00 JOB ARM 1 26 345-7818-21 SPONGE [LEFT] 1 27 335-5307-00 ILLUMI PLATE [LEFT] 1 28 940-1875A DCP-ASSY (PE-2231E-B) 1 29 347-5365-20 SHADE 1 30 337-5366-20 FILM 1 31 347-5366-20 FILM 1 32 347-5365-20 SHADE 1 33 345-4441-31 LAMP CAP [BRUER] (PE-2270E-A) 1 34 345-4441-31 LAMP CAP [BRUER] (PE-2270E-B) 3 36 345-4441-58 LAMP CAP [BRUER] (PE-2270E-B) 3 36 345-4441-18 LAMP CAP [RIGHR] (PE-2231E-B) 3 36 345-4441-18 LAMP CAP [RIGHR] (PE-2270E-A) 2 36 345-2830-20 LAMP CAP [RIGHR] (PE-2270E-B) 3 36 345-4441-18 LAMP CAP [RIGHR] (PE-2270E-B) 3 36 345-4441-18 LAMP CAP [RIGHR] (PE-2231E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 3 38 017-0441-00 PILOT LAMP (PE-2231E-B) 3 39 013-3812-11 TACT SWITCH 10				
3 335-4874-20 DOOR ILLUMI (PE-2231E-B) 1 4 382-4394-21 BUTTON [BAND/AM] (PE-2270E-A/B) 1 5 382-4399-20 BUTTON [FUND/POWER] 1 6 382-4396-21 BUTTON [DN/UP] (PE-2231E-B) 1 7 382-4396-21 BUTTON [DN/UP] (PE-2231E-B) 1 7 382-4396-11 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 9 382-4470-20 BUTTON [RELEASE] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 11 378-0148-00 BADGE (PE-2231E-B) 1 12 382-441-22 BUTTON [1 SCN] 1 13 382-4418-21 BUTTON [1 SCN] 1 14 382-442-22 BUTTON [2 RPT] 1 15 382-4419-21 BUTTON [2 RPT] 1 16 382-442-21 BUTTON [3 RDM] 1 17 382-4420-21 BUTTON [3 RDM] 1 18 382-4413-20 BUTTON [3 RDM] 1 19 382-4413-20 BUTTON [3 RDM] 1 10 335-5306-00 ILLUMI PLATE [RIGHT] 1 21 335-5306-00 ILLUMI PLATE [RIGHT] 1 22 335-5297-00 JOB PLATE 1 25 335-5298-00 JOB ARM 1 26 345-7817-21 SPONGE [ILEFT] 1 27 335-5307-00 ILLUMI PLATE [LEFT] 1 28 940-1876A DCP-ASSY (PE-2231E-B) 1 29 347-5365-20 SHADE 1 30 345-4441-31 INDICATOR 1 31 347-5366-20 FILM 1 34 335-5309-20 LCD HLUMI PLATE [LEFT] 1 35 345-4441-31 LAMP CAP [BREET] 1 36 345-4441-31 INDICATOR 1 37 31-314-41 INDICATOR 1 38 345-4441-51 LAMP CAP [BREET] (PE-2231E-B) 3 36 345-2830-20 LAMP CAP [BREEN] (PE-2231E-B) 3 36 345-2830-20 LAMP CAP [BREEN] (PE-2231E-B) 3 36 345-2830-20 LAMP CAP [GREEN] (PE-2231E-B) 3 36 345-2830-20 LAMP CAP [GREEN] (PE-2231E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 3 38 017-0444-00 PILOT LAMP (PE-2231E-B) 3 39 013-3812-11 TACT SWITCH 10				
4 382-4394-21 BUTTON [BAND/AM] (PE-2231E-B) 1 4 382-4394-11 BUTTON [BAND/AM] (PE-2270E-A/B) 1 5 382-4393-20 BUTTON (FUND/POWER) 1 6 382-4396-21 BUTTON [DN/UP] (PE-2231E-B) 1 7 382-4453-00 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 11 378-0148-00 BADGE (PE-2231E-B) 1 12 382-4421-22 BUTTON [SCN] 1 13 382-4418-21 BUTTON [SCN] 1 14 382-4422-21 BUTTON [S CN] 1 15 382-4418-21 BUTTON [S CN] 1 16 382-4422-21 BUTTON [S CN] 1 17 382-4422-21 BUTTON [S CN] 1 18 382-4418-21 BUTTON [S CN] 1 19 382-4421-21 BUTTON [S CN] 1 10 382-4422-21 BUTTON [S CN] 1 11 378-0134-00 BADGE (PE-2231E-B) 1 12 382-34418-21 BUTTON [S CN] 1 13 382-34418-21 BUTTON [S CN] 1 14 382-4422-21 BUTTON [S CN] 1 15 382-4421-21 BUTTON [S CN] 1 17 382-4420-21 BUTTON [S CN] 1 18 382-4419-21 BUTTON [S CN] 1 19 382-3419-20 BUTTON [S CN] 1 20 345-7817-21 SPONGE [RIGHT] 1 21 335-5306-00 ILLUMI PLATE [RIGHT] 1 22 335-5296-00 REAR COVER 1 24 335-5296-00 JOB PLATE 1 25 335-5296-00 JOB PLATE 1 26 345-7818-21 SPONGE [LEFT] 1 27 335-5307-00 JOB PLATE 1 28 940-1876A DCP-ASSY (PE-2231E-B) 1 29 331-2014-00 LCD COVER 1 30 379-1113-41 INDICATOR 1 31 347-5366-20 FILM 1 32 347-5365-20 SHADE 1 33 335-5308-20 LCD ILLUMI PLATE [LEFT] 1 342 345-4441-37 LAMP CAP [BLUE] (PE-2231E-B) 3 345-4441-58 LAMP CAP [BLUE] (PE-2231E-B) 3 35 345-4441-58 LAMP CAP [BREN] (PE-2270E-A) 1 36 345-4441-58 LAMP CAP [BREN] (PE-2270E-B) 3 36 345-4441-58 LAMP CAP [BREN] (PE-2270E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 3 38 017-0441-00 PILOT LAMP (PE-2231E-B) 3 39 013-3812-11 TACT SWITCH 5				
4 382-4394-11 BUTTON [BAND/AM] (PE-2270E-A/B) 1 5 382-4393-20 BUTTON (FUND/POWER) 1 6 382-4396-22 BUTTON [DN/UP] (PE-2231E-B) 1 7 382-4459-01 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2270E-A/B) 1 11 378-0148-00 BADGE (PE-2270E-A/B) 1 12 382-4418-21 BUTTON [1 SCN] 1 1 13 382-4418-21 BUTTON [2 FPT] 1 1 15 382-4419-21 BUTTON [2 FPT] 1 1 16 382-4422-21 BUTTON [3 FPT] 1 1 17 382-4422-21 BUTTON [3 FPT] 1 1 18 382-4419-21 BUTTON [3 FPT] 1 1 19 382-4420-21 BUTTON [3 FPT] 1 1				
5 382-4393-20 BUTTON (FUND/POWER) 1 6 382-4396-22 BUTTON [DN/UP] (PE-2231E-B) 1 6 382-4396-11 BUTTON [EJECT] 1 7 382-4453-00 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 9 382-4470-20 BUTTON [RELEASE] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2270E-A/B) 1 11 378-0134-00 BADGE (PE-2270E-A/B) 1 12 382-4418-0 BADGE (PE-2270E-A/B) 1 13 382-4418-0 BADGE (PE-2270E-A/B) 1 14 382-441-21 BUTTON [3 SCN] 1 15 382-4412-21 BUTTON [6 TOP] 1 16 382-4412-21 BUTTON [3 RDM] 1 18 382-4413-20 BUTTON [7A] 1 19 382-4413-20 BUTTON [7A] 1 20 345-7817-21 SPONGE [RIGHT] 1 21 335-53	· · · · · · · ·			
6 382-4396-22 BUTTON [DN/UP] (PE-2231E-B) 1 6 382-4396-11 BUTTON [PS/AS] (PE-2270E-A/B) 1 7 382-4453-00 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 11 378-0134-00 BADGE (PE-2231E-B) 1 12 382-441-22 BUTTON [4] 1 13 382-441-22 BUTTON [1 SCN] 1 14 382-4421-22 BUTTON [5 ▷/ II] 1 15 382-4419-21 BUTTON [2 RPT] 1 16 382-4420-21 BUTTON [6 TOP] 1 17 382-4420-21 BUTTON [6 TOP] 1 18 382-4413-20 BUTTON [7 SCN] 1 19 382-4413-20 BUTTON [7 SCN] 1 20 345-7817-21 SPONGE [RIGHT] 1 21 335-5306-00 ILLUMI PLATE [RIGHT] 1 22 335-5296-00 REAR COVER 1 23 335-5397-00 JOB PLATE 1 24 335-5298-00 JOB RAM 1 25 335-5298-00 JOB RAM 1 26 345-7818-21 SPONGE [EFT] 1 27 335-5307-00 ILLUMI PLATE [LEFT] 1 28 940-1875A DCP-ASSY (PE-2231E-B) 1 29 331-2014-00 LCD COVER 1 30 379-1113-41 INDICATOR 1 31 347-5366-20 FILM 1 32 345-3441-51 BUTPON [7 SCN] (PE-2270E-A) 1 34 335-5308-20 LCD HOLDER 1 35 345-4441-51 LAMP CAP [BLUE] (PE-2231E-B) 3 35 345-4441-51 LAMP CAP [BLUE] (PE-2231E-B) 3 35 345-4441-51 LAMP CAP [REN] (PE-2270E-A) 2 36 345-4441-51 LAMP CAP [REN] (PE-2270E-A) 2 37 017-0441-00 PILOT LAMP (PE-2270E-A) 2 38 017-0441-00 PILOT LAMP (PE-2270E-A) 2 38 017-0441-00 PILOT LAMP (PE-2270E-A) 3 39 013-3812-11 TACT SWITCH 10				
6 382-4396-11 BUTTON[PS/AS] (PE-2270E-A/B) 1 7 382-4453-00 BUTTON [EJECT] 1 8 335-5286-00 HOLDER [EJECT] 1 9 382-4470-20 BUTTON [RELEASE] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 11 378-0148-00 BADGE (PE-2231E-B) 1 12 382-4412-22 BUTTON [4] 1 13 382-4418-21 BUTTON [4] 1 13 382-4418-21 BUTTON [5 ⋈				
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9 382-4470-20 BUTTON [RELEASE] 1 10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 11 378-0148-00 BADGE (PE-2270E-A/B) 1 12 382-4421-22 BUTTON [4] 1 13 382-4418-21 BUTTON [1 SCN] 1 14 382-4422-21 BUTTON [5 ≫ II] 1 15 382-4419-21 BUTTON [6 TOP] 1 16 382-4420-21 BUTTON [6 TOP] 1 17 382-4420-21 BUTTON [7 RPT] 1 18 382-4410-21 BUTTON [7 RPT] 1 19 382-4410-21 BUTTON [7 RPT] 1 10 382-4410-21 BUTTON [7 RPT] 1 11 335-5306-00 ILLUMI PLATE [RIGHT] 1 12 335-5306-00 ILLUMI PLATE [RIGHT] 1 12 335-5296-00 REAR COVER 1 12 335-5298-00 JOB PLATE 1 12 335-5298-00 JOB PLATE 1 12 335-5298-00 JOB PLATE 1 12 335-5307-00 ILLUMI PLATE [LEFT] 1 12 335-5307-00 ILLUMI PLATE [LEFT] 1 12 335-5307-00 ILLUMI PLATE [LEFT] 1 12 335-5308-00 ILLUMI PLATE [LEFT] 1 13 347-5366-20 FILM 1 13 347-5366-20 FILM 1 13 347-5368-20 ILCD COVER 1 13 347-5368-20 ICD HOLDER 1 13 345-4441-31 INDICATOR 1 13 347-5368-20 ICD HOLDER 1 13 345-2830-20 LCD HOLDER 1 13 345-2830-20 LAMP CAP [AMBER] (PE-2231E-B) 3 13 345-4441-81 LAMP CAP [AMBER] (PE-2270E-A) 3 13 345-4441-81 LAMP CAP [GREEN] (PE-2231E-B) 2 13 345-4441-81 LAMP CAP [GREEN] (PE-2270E-B) 3 13 345-4441-81 LAMP CAP [GREEN] (PE-2270E-B) 2 13 345-4441-81 LAMP CAP [GREEN] (PE-2270E-B) 2 14 30 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 3 15 345-4441-81 LAMP CAP [GREEN] (PE-2270E-B) 3 16 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 3 17 017-0441-00 PILOT LAMP (PE-2231E-B) 2 18 017-04410-00 PILOT LAMP (PE-2231E-B) 3				
10 716-1721-00 P-TIGHT SCREW 5 11 378-0134-00 BADGE (PE-2231E-B) 1 11 378-0148-00 BADGE (PE-2270E-A/B) 1 12 382-4421-22 BUTTON [4] 1 13 382-4418-21 BUTTON [1 SCN] 1 14 382-4422-21 BUTTON [5 ≯ II] 1 15 382-4419-21 BUTTON [6 TOP] 1 16 382-4423-21 BUTTON [6 TOP] 1 17 382-4420-21 BUTTON [7 RPT] 1 18 382-4413-20 BUTTON [7 RPT] 1 19 382-4413-20 BUTTON [7 RPT] 1 10 382-4413-20 BUTTON [7 RPT] 1 11 335-5306-00 ILLUMI PLATE [RIGHT] 1 12 335-5306-00 REAR COVER 1 12 335-5298-00 JOB PLATE 1 12 335-5298-00 JOB PLATE 1 12 335-5307-00 ILLUMI PLATE [LEFT] 1 12 335-5307-00 ILLUMI PLATE [LEFT] 1 12 335-5307-00 ILLUMI PLATE [LEFT] 1 12 335-5308-00 ILLUMI PLATE [LEFT] 1 12 335-5308-00 ILLUMI PLATE [LEFT] 1 12 335-5298-00 JOB ARM 1 1 22 347-5365-20 FILM 1 13 347-5366-20 FILM 1 13 347-5366-20 FILM 1 13 347-5366-20 FILM 1 13 347-5368-20 LCD LCD COVER 1 13 345-2830-20 LCD HOLDER 1 13 345-2830-20 LCD HOLDER 1 14 335-2830-20 LAMP CAP [BRUE] (PE-2231E-B) 3 15 345-4441-38 LAMP CAP [BRUE] (PE-2231E-B) 3 15 345-4441-81 LAMP CAP [REEN] (PE-2270E-A) 3 15 345-2830-20 LAMP CAP [REEN] (PE-2270E-B) 3 16 345-2830-20 LAMP CAP [REEN] (PE-2270E-B) 3 17 017-0441-00 PILOT LAMP (PE-2231E-B) 2 18 017-0441-00 PILOT LAMP (PE-2231E-B) 3				
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35 345-4441-37 LAMP CAP [BLUE] (PE-2231E-B) 3 35 345-4441-58 LAMP CAP [AMBER] (PE-2270E-A) 3 35 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 3 36 345-4441-81 LAMP CAP [GREEN] (PE-2231E-B) 2 36 345-4441-58 LAMP CAP [AMBER] (PE-2270E-A) 2 36 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 37 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0444-00 PILOT LAMP (PE-2231E-B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10	33	335-5308-20	LCD ILLUMI	1
35 345-4441-58 LAMP CAP [AMBER] (PE-2270E-A) 3 35 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 3 36 345-4441-81 LAMP CAP [GREEN] (PE-2231E-B) 2 36 345-4441-58 LAMP CAP [AMBER] (PE-2270E-A) 2 36 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 37 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0440-00 PILOT LAMP (PE-2231E-B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10				
35 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 3 36 345-4441-81 LAMP CAP [GREEN] (PE-2231E-B) 2 36 345-4441-58 LAMP CAP [AMBER] (PE-2270E-A) 2 36 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 37 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0444-00 PILOT LAMP (PE-2231E-B) 3 38 017-0410-00 PILOT LAMP (PE-2270E-A/B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10		345-4441-37	LAMP CAP [BLUE] (PE-2231E-B)	3
36 345-4441-81 LAMP CAP [GREEN] (PE-2231E-B) 2 36 345-4441-58 LAMP CAP [AMBER] (PE-2270E-A) 2 36 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 38 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0440-00 PILOT LAMP (PE-2231E-B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10	35	345-4441-58		
36 345-4441-58 LAMP CAP [AMBER] (PE-2270E-A) 2 36 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 37 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0444-00 PILOT LAMP (PE-2231E-B) 3 38 017-0410-00 PILOT LAMP (PE-2270E-A/B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10	35	+		
36 345-2830-20 LAMP CAP [GREEN] (PE-2270E-B) 2 37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 37 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0444-00 PILOT LAMP (PE-2231E-B) 3 38 017-0410-00 PILOT LAMP (PE-2270E-A/B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10		345-4441-81		
37 017-0441-00 PILOT LAMP (PE-2231E-B) 2 37 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0444-00 PILOT LAMP (PE-2231E-B) 3 38 017-0410-00 PILOT LAMP (PE-2270E-A/B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10		345-4441-58		
37 017-0414-00 PILOT LAMP (PE-2270E-A/B) 2 38 017-0444-00 PILOT LAMP (PE-2231E-B) 3 38 017-0410-00 PILOT LAMP (PE-2270E-A/B) 3 39 013-3812-11 TACT SWITCH 5 40 013-6002-50 TACT SWITCH 10				
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40 013-6002-50 TACT SWITCH 10				
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41 039-0889-00 SWITCH PWB 1		013-6002-50		·
	41	039-0889-00	SWITCH PWB	1

NO PART NO. DESCRIPTION 42 076-0522-00 PLUG 43 051-6013-00 IC 44 716-1792-00 SCREW 45 291-0074-00 STICKER 46 346-0097-00 LEATHER SHEET 47 382-4078-20 BUTTON [PUST OUT] 48 750-3173-00 SPRING 49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE <th>· · • · · · · · · · · · · · · · · · · ·</th>	· · • · · · · · · · · · · · · · · · · ·
43 051-6013-00 IC 44 716-1792-00 SCREW 45 291-0074-00 STICKER 46 346-0097-00 LEATHER SHEET 47 382-4078-20 BUTTON [PUST OUT] 48 750-3173-00 SPRING 49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
44 716-1792-00 SCREW 45 291-0074-00 STICKER 46 346-0097-00 LEATHER SHEET 47 382-4078-20 BUTTON [PUST OUT] 48 750-3173-00 SPRING 49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	2 1 1 2 1 2 1 1 1 1 1 1 1
45 291-0074-00 STICKER 46 346-0097-00 LEATHER SHEET 47 382-4078-20 BUTTON [PUST OUT] 48 750-3173-00 SPRING 49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
46 346-0097-00 LEATHER SHEET 47 382-4078-20 BUTTON [PUST OUT] 48 750-3173-00 SPRING 49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1 1 2 1 2 1 1 1 1 1 1
47 382-4078-20 BUTTON [PUST OUT] 48 750-3173-00 SPRING 49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
48 750-3173-00 SPRING 49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	2 1 2 1 1 1 1 1 0 1
49 331-2002-20 HOOK PLATE 50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
50 716-0778-00 WAVE SCREW 51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	2 1 1 1 1 1) 1
51 335-5312-20 HOOK 52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	2 1 1 1 1 1) 1
52 341-1627-20 SHAFT 53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1 1 1) 1) 1
53 750-3219-20 SPRING 54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1 1 1) 1) 1
54 370-5655-00 INNER-ES 55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1) 1) 1
55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	1) 1) 1
55 286-8738-00 SET PLATE (PE-2231E-B 55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE) 1
55 286-8963-00 SET PLATE (PE-2270E-A/B 56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE) 1
56 304-0440-20 LOWER COVER 57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	
57 750-2796-0L SPRING 58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	<u>-</u>
58 714-5008-41 M/C SCREW 59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	. 2
59 731-3006-80 TAPTIGHT SCREW 60 309-0664-21 FRONT PLATE	2
60 309-0664-21 FRONT PLATE	2
	5
	1
61 039-0888-00 MAIN PWB	1
62 074-1112-00 OUTLET SOCKET	1
63 305-0242-20 SIDE COVER [LEFT]	1
64 313-1643-00 HEAT SINK	1
65 051-2009-00 IC [POWER]	2
66 075-9004-00 RCA JACK [RED]	11
67 331-1766-21 IC HOLDER	1
68 347-5216-00 INSULATOR	1
69 075-9003-00 RCA JACK [WHITE]	1
70 039-0607-01 RCA PWB	+ 1
71 347-5291-00 FILM	1
72 331-1862-00 SHIELD CASE	1
73 009-9006-60 CHOKE	1 1
74 102-3420-00 TRANSISTOR	1
75 060-0057-06 AUTO FUSE	1
76 074-1126-10 OUTLET SOCKET (ONLY PE-2231E-B)	1
77 074-1115-00 OUTLET SOCKET	1
78 039-0887-20 ISO PWB	1
79 880-2080B TUNER PACK	1
80 313-1610-01 HEAT SINK	1
81 092-9000-00 ANT RECEPT	1
82 714-3006-81 M/C SCREW	1
83 307-0580-00 REAR PLATE	1
84 305-0247-21 SIDE COVER [RIGHT]	1
85 731-3006-80 TAPTIGHT SCREW	8
86 285-1340-00 GUIDE LABER [CAUTION]	1
	1
86 285-1340-00 GUIDE LABER [CAUTION]	+
86 285-1340-00 GUIDE LABER [CAUTION] 87 303-0457-20 UPPER COVER	1
86 285-1340-00 GUIDE LABER [CAUTION] 87 303-0457-20 UPPER COVER 88 285-1426-00 GUIDE LABEL [LASER]	1
86 285-1340-00 GUIDE LABER [CAUTION] 87 303-0457-20 UPPER COVER 88 285-1426-00 GUIDE LABEL [LASER] 89 347-5215-00 INSULATOR	1 1 1
86 285-1340-00 GUIDE LABER [CAUTION] 87 303-0457-20 UPPER COVER 88 285-1426-00 GUIDE LABEL [LASER] 89 347-5215-00 INSULATOR 90 929-0065-80 CD MECHANISM	1 1 1 1 1

■ BLOCK DIAGRAM



■ELECTRICAL PARTS LIST

Note) Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

SW PWB section

REF No.	PART No.	DESCRIPTION
C 701	178-6812-05	680pF
C 702	178-1032-05	
I/C 701	O51-6013-00	
P 701	O76-0522-00	PLUG
PL 701		
	Q17-0410-00	PILOT LAMP (DRB 4475)
PL 702	O17-0444-00	PILOT LAMP (DRX 5375)
'	O17-0410-00	
PL 703	O17-0444-00	
I:	Q17-0410-00	
PL 704	Q17-0441-00	PILOT LAMP (DRX 5375)
705	Q17-0414-00	
PL 705	Q17-0441-00	PILOT LAMP (DRX 5375)
704	O17-0414-00	PILOT LAMP (DRB 4475)
R 701	- 17 TOZ 1 TO	
	117 1021 10	
R 703	1 17-1021-10	∃1/10W 1kΩ

RE	F No.	PART No.	DESCRIPTION
R	704	117-3921-10	1/10W 3.9kΩ
R	705	117-1241-10	1/10W 120kΩ
R	706	117-6831-10	1/10W 68kΩ
R	707	117-1031-10	1/10W 10kΩ
s	701	013-3812-11	
s	701	013-3812-11	
S	702	013-6002-50	
s	703	013-3812-11	
s	704	013-3812-11	
s	706	013-3812-11	
s	707	013-3812-11	
s	708	013-3812-11	
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_		013-3812-11	
ς	711		
~		013-6002-50	
s	712	013-6002-50	
s	713	013-6002-50	
s	714	013-6002-50	
s	715	013-6002-50	
s	716:	013-6002-50	
s	717	013-6002-50	
s	718	013-6002-50	
s	719	013-6002-50	
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Main PWB section

RFF	No.		DESCRIPTION	REF	No.	PART No.	DESCRIPTION	REI	No.	PART No.	DESCRIPTION
ANT				C		178-4732-05		a		125-2004-03	
BL			ANT-RECEPT TUNER	C	610 613	178-4732-05		a	203 204	125-2004-03	
1		176-1801-00		C	613	182-2263-13	l '	a		100-1162-00	
		178-1032-05		C		178-4732-05		ã		103-1858-00	
С С	1	182-1053-63	· · · · · · · · · · · · · · · · · · ·	C	616	178-4732-05		ă	207	103-1858-00	
С		178-6822-05		c	617	178-2232-05	1 '	a		103-1858-00	
С		178-1042-78		C		178-4732-05	· '	a		103-1858-00	
000	1	182-4763-23	· · · · · · · · · · · · · · · · · · ·	С	801	178-3312-05	, · ·	Q	210	101-1237-00	1
С	1	178-1032-05	, , , , , , , , , , , , , , , , , , ,	С	802	182-2253-63	50V2.2 μF	Q	211	102-2458-00	2SC2458
	11	176-1011-00	100pF CH	С	803	178-5612-05	560pF	Q	212	103-1858-00	2SD1858
000	12	178-1222-55	1200pF	С	804	182-4763-13	6.3V47 μF	Q	213	100-1162-00	2SA1162
	13	178-8222-55	8200pF	С	805	178-1042-78		Q	451	103-1306-00	2SD1306
000	14	176-1011-00	100pF CH	C	806	176-4701-00	47pF CH	Q		103-1306-00	
C		178-2232-05	0.022 μF	С	807	176-8201-00	' I	Q		125-2003-03	
		178-2232-05		С	810	178-3312-05		Q		125-2004-03	
С С С		178-4732-05		С		178-5612-05		Q		100-1162-00	
C		178-1522-05		С		178-5612-05	, , ,	Q		125-2003-06	
C		176-1801-00		С		178-2232-05	, , , , , , , , , , , , , , , , , , ,	Q		125-2003-06	(
С С С		176-1501-00		С		178-2232-05		Q		100-1162-00	
C		182-4763-13	'	С	815	178-1032-05		Q		125-2004-03	l .
C		178-1032-05		C		176-1011-00	: '	Q		103-1858-00	I .
000	1	176-1011-00	· ·	С		178-3312-05		Q		103-1858-00	
C	- 1	176-1011-00		С	901	182-1063-33		Q		125-0003-02	ſ
		176-1011-00	· •	С	902	182-1063-33		Q		102-3420-00	
000	3	176-1011-00		С	904	178-1022-05		Q		103-1683-00	
C	1	182-1053-63	· ·	D	201	001-0330-00		Q		125-0003-02	
C	- 1	178-1042-78	. · .	D		001-0330-00		Q		125-2003-02	
C C		182-4763-23	. · · ·	D		001-0330-00	, ,	R		i i	1/10W 8.2k Ω
C	1	182-2253-62	i ' I	D	204	001-0188-01	;	R	2	Ť	1/4WS 330 Ω
C		182-2253-62		D	205	001-0330-00	ł <u> </u>	R	3		1/10W 18kΩ
000		182-2253-62		D		001-0330-00		R	4	117-1021-10	
C	ì	182-2253-62	_	D	207	001-0377-46		R	5		1/10W 12kΩ
	1	178-2232-05	1 '	D	208	001-0377-46	?	R	6		1/10W 22kΩ
0 0 0		182-1063-33		D		001-0503-33	i I	R	7	117-1021-10	
		184-2283-32	· · · · · · · · · · · · · · · · · · ·	D	210	001-0466-00	1	R			1/10W 220kΩ
		172-1041-11	l '	D		001-0330-00	1	R	9		1/10W 10kΩ
000		182-1063-33		D		001-0377-23		R	10		1/10W 10kΩ
		182-1063-33	· .	D	601	001-0330-00		R	11		1/10W 10kΩ
		178-4732-05		D D	602	001-0659-00		R	12	117-1021-10	
C		182-1063-33 178-1032-05		D	603 604	001-0589-00		R R			1/10W 10kΩ
C C	209		· '	D		001-0330-00	1	R	14 15	117-1021-10 117-3331-10	
C	451	182-1063-33 182-1063-33		D		001-0330-00		R		117-3331-10	
C		182-1063-33		D		001-0330-00		R	17		1/4VVS 1KΩ 1/10W 12kΩ
C		182-3343-63		D		001-0330-00		R			1/4WS 270 Ω
C		182-2253-63		D		001-0423-19		R			1/4 vv S 2/0 Ω 1/10W 2.2k Ω
C		182-1063-33		D		001-0330-00		R	21		1/10W 2.2k Ω 1/10W 56kΩ
C		182-1063-33		l _D		001-0330-00		R		117-3631-10	
Ĭč		182-1063-33		b		001-0330-00		R			1/10W 1kΩ 1/10W 2.2k Ω
C C		182-1063-33		Ь		001-0377-32		R		117-1021-10	i.
Ιč		176-5601-00		ic	1	051-0422-51	ł ł	R		117-1021-10	
Ιć		176-5601-00		iC	2	051-6201-00		R		117-1021-10	
0000		182-4753-53		lic		051-2009-00	į į	R	27	117-1021-10	
ľć		182-4753-53		iC		051-2009-00	t I	R			1/10W 4.7k Ω
ľc		176-1511-00	' 1	iC		051-5008-00		R			1/10W 4.7k Ω
Ιč		176-1511-00	1 '	ic	601	1	μPD178016-511-	R			1/10W 4.7k Ω
С С С		178-8232-55			•		3B9	R			1/10W 4.7k Ω
c		182-4753-53		IC	602	051-0869-50	3	R			1/10W 4.7k Ω
С С С		178-8232-55		ic		051-0160-01		R			1/4WS 1.2k Ω
c		182-4753-53		ic	801	051-1819-10	1	R			1/4WS 10kΩ
ľc		182-2263-33		J	601	3	OUTLET SOCKET	R			1/4WS 1.5Ω
С С С		182-2263-33		J	602	l l	OUTLET SOCKET	R			1/4WS 1.5Ω
C		178-5622-05		ال	1	010-2330-17	l .	R		111-1591-91	
C		178-5632-05		ال	2	010-2230-38		R			1/4WS 1.5Ω
C		178-5622-05		اآ	601	010-2230-64		R			1/4WS 2.2k Ω
000	525	178-5622-05		Ĭ.	602	010-2230-26	1 '	R			1/10W 10kΩ
c		178-5632-05		à	1	100-1298-00	1 '	R			1/10W 10kΩ
C		178-5622-05		ũ	2	100-1162-00	,	R		117-1091-10	
C		182-1063-33	1 1	Q	3	103-1306-00	1 1	R		117-1091-10	
c		182-1063-33	· · · · · · · · · · · · · · · · · · ·	a	4	125-0002-03	1	R			1/4WS 270 Ω
c		184-2273-22		ă	5	108-0669-00		R		111-1091-91	
č	531	182-4763-33		ă	201	101-1237-00	1 1	R		111-1091-91	
c	601	178-1042-78		ă		102-2712-00		R			1/4WS 270 Ω
I	55.			1			· -	Ι.	•		

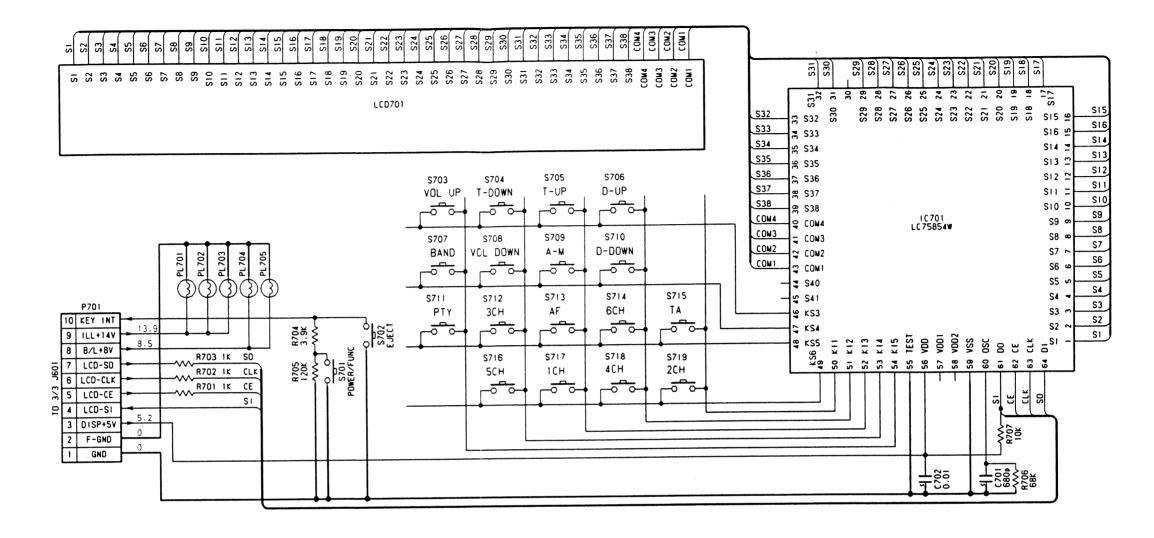
REF No	PART No.	DESCRIPTION	REF	No.	PART No.	DESCRIPTION	RE	F No.	PART No.	DESCRIPTION
R 217	111-2231-91	1/4WS 22kΩ	R	513	117-6821-10	1/10W 6.8kΩ	□ R	630	117-1041-10	1/10W 100kΩ
R 218]	1/4WS 10kΩ	R	514	117-6821-10	1/10W 6.8kΩ	R	631	117-2231-10	1/10W 22kΩ
R 219	111-1021-91	1/4WS 1kΩ	R	515	111-3311-91	1/4WS 330 Ω	R	632	117-4321-10	1/10W 4.3kΩ
R 220	117-4721-10	1/10W 4.7kΩ	R	601	111-8211-91	1/4WS 820 Ω	R	633	117-1041-10	1/10W 100kΩ
R 221	117-3921-10	1/10W 3.9kΩ	R	602	111-1031-91	1/4WS 10kΩ	R	634	111-4721-91	1/4WS 4.7kΩ
R 222	117-1021-10	1/10W 1kΩ	R	603	111-4721-91	1/4WS 4.7kΩ	R	635	111-4721-91	1/4WS 4.7kΩ
R 223	117-1021-10	1/10W 1kΩ	R	604	111-1031-91	1/4WS 10kΩ	R	801	117-2221-10	1/10W 2.2kΩ
R 224	117-1031-10	1/10W 10kΩ	R	605	117-1031-10	1/10W 10kΩ	R	802	117-3331-10	1/10W 33kΩ
R 225	117-1031-10	1/10W 10kΩ	R	606	117-1041-10	1/10W 100kΩ	R	803	117-3321-10	1/10W 3.3kΩ
R 226	111-1521-91	1/4WS 1.5kΩ	R	607	117-1031-10	1/10W 10kΩ	R	804	117-2231-10	1/10W 22kΩ
R 227	117-2231-10	1/10W 22kΩ	R	608	117-3321-10	1/10W 3.3kΩ	R	805	117-1031-10	1/10W 10kΩ
R 228	117-2231-10	1/10W 22kΩ	R	609	117-1041-10	1/10W 100kΩ	R	806	117-1231-10	1/10W 12kΩ
R 229	111-2201-91	1/4WS 22 Ω	R	610	111-2231-91	1/4WS 22kΩ	R	807	117-1041-10	1/10W 100kΩ
R 230	111-2711-91	1/4WS 270 Ω	R	611	117-1031-10	1/10W 10kΩ	R	808	117-1031-10	1/10W 10kΩ
R 231	111-2201-91	1/4WS 22 Ω	R	612	117-4711-10	1/10W 470 Ω	R	809	117-1031-10	1/10W 10kΩ
R 451	117-1031-10	1/10W 10kΩ	R	613	111-2231-91	1/4WS 22kΩ	R	810	117-2211-10	1/10W 220 Ω
R 452	117-1031-10	1/10W 10kΩ	R	614	117-4731-10	1/10W 47kΩ	R	901	111-1091-91	1/4WS 1 Ω
R 453	117-3311-10	1/10W 330 Ω	R	615	117-1541-10	1/10W 150kΩ	R	902	111-1091-91	1/4WS 1Ω
R 454	111-1021-91	1/4WS 1kΩ	R	616	117-4731-10	1/10W 47kΩ	R	903	111-2211-91	1/4WS 220Ω
R 456	117-3311-10	1/10W 330 Ω	R	617	032-0092-81	1/10W 180kΩ	R	904	111-3311-91	1/4WS 330Ω
R 501	117-1031-10	1/10W 10kΩ	R	618	032-0092-28	1/10W 62kΩ	R	907	111-1041-91	1/4WS 100kΩ
R 502	117-3331-10	1/10W 33kΩ	R	619	117-8221-10	1/10W 8.2kΩ	R	908	111-1041-91	1/4WS 100kΩ
R 500	117-2231-10	1/10W 22kΩ	R	620	111-1831-91	1/4WS 18kΩ	R	909	111-1041-91	1/4WS 100kΩ
R 504	117-3331-10	1/10W 33kΩ	R	621	117-4721-10	1/10W 4.7kΩ	R		111-4731-91	-
R 505	117-1031-10	1/10W 10kΩ	R	622	117-4721-10	1/10W 4.7kΩ	s		013-3932-00	DSP-201M-SOOB
R 506	117-3331-10	1/10W 33kΩ	R	623	117-4721-10	1/10W 4.7kΩ	SU	P1	060-0122-10	
R 507	117-2231-10	1/10W 22kΩ	R	624	117-1031-10	1/10W 10kΩ	T	201	009-9006-60	El-19
R 508	117-3331-10	1/10W 33kΩ	R	625		1/10W 10kΩ	X	1	061-1066-00	,
R 509	117-5131-10	1/10W 51kΩ	R	626	117-1021-10		X		060-1023-00	i
R 510	117-5131-10	1/10W 51kΩ	R	627	117-1021-10		X	801	061-3013-00	4.33MHz
R 51	117-6831-10	1/10W 68kΩ	R	628		1/10W 10kΩ				
R 512	117-6831-10	1/10W 68kΩ	R	629	117-1021-10	1/10W 1kΩ				

CD Mechanism Section

REF	No.	PART No.	DESCRIPTION	REF	No.	PART No.	DESCRIPTION	REF	No.	PART No.	DESCRIPTION
С	10	178-1032-78	0.01uF	С	37	178-1522-78	1500pF	R	12	117-1031-10	1/10W 10kΩ
lc	11	182-1063-32	16V10uF	С	38	178-1032-78		R	14	117-5631-10	1/10W 56kΩ
c	12	178-1042-78	0.1uF	С	39	042-0230-00	35V0.47uF	R	15	117-2731-10	1/10W 27kΩ
c	13	182-1073-12	6.3V100uF	С	40	178-1032-78	0.01uF	R	16	117-2211-10	1/10W 220Ω
c	14	178-1032-78	0.01uF	С	41	178-1042-78	0.1uF	R	17	117-2211-10	1/10W 220Ω
C	15	182-2263-12	6.3V22uF	С	42	178-2222-78	2200pF	R	18	117-1031-10	1/10W 10kΩ
c	16	178-1032-78	0.01uF	С	100	182-4763-12	6.3V47uF	R	19	117-2231-10	1/10W 22kΩ
С	17	178-1042-78	0.1uF	С	101	182-4763-12	6.3V47uF	R	20	117-4721-10	1/10W 4.7kΩ
C	18	178-1042-78	0.1uF	С	102	178-1032-78	0.01uF	R	21	117-2231-10	1/10W 22kΩ
С	19	176-1007-00	10pF CH	С	103	182-1073-32	16V100uF	R	22	117-4711-10	1/10W 470Ω
С	20	178-1042-78	0.1uF	D	1	001-0563-00	GL380	R	23	117-1011-10	1/10W 100Ω
С	21	182-2263-12	6.3V22uF	D	2	001-0563-00	GL380	R	24	117-1021-10	1/10W 1kΩ
C	22	176-2096-00	2pF CJ	D	3	001-0563-00	GL380	R	25	117-1001-10	1/10W 10Ω
C	23	178-1042-78	0.1uF	IC	1	051-1014-10	TA7291S	R	26	117-3331-10	1/10W 33kΩ
C	24	178-1022-78	1000pF	IC	_	051-6015-05	BA6392FP	R	27	117-3631-10	1/10W 36kΩ
C	25.	176-1007-00	10pF CH	IC.	3	051-6314-05	TC9404FN	R	28	117-1241-10	1/10W 120kΩ
C	26	176-1007-00	10pF CH	IC.	4	051-1971-00	CXA16010M	R	29	117-3631-10	1/10W 36kΩ
C	27	182-1073-12	6.3V100uF	IC	5	051-6313-00	CXD2545Q	R	30	117-1041-10	1/10W 100kΩ
C	28	178-1042-78	0.1uF	L	1	010-2155-03	10uH	R		117-1031-10	
C	29	182-1073-12	6.3V100uF	L		010-2155-03	10uH	R	32	117-6821-10	1/10W 6 .8kΩ
c	30	178-1042-78	0.1uF	L	3	010-2155-03	10uH	R	33	117-3321-10	1/10W 3.3kΩ
C	31	176-1007-00	10pF CH	Q	1	101-1237-00	2SB1237	R	34	117-1051-10	1/10W 1MΩ
C	32	178-2212-78	220pF	Q	101	060-0252-01	PT4850F	R	35	117-1041-10	1/10W 100kΩ
С	33	178-1042-78	0.1uF	Q	102	060-0252-01	PT4850F	R	36	117-1031-10	1/10W 10kΩ
С	34	178-2212-78	220pF	Q	103	060-0252-01	PT4850F	X	1	060-1014-00	16.9344MHz
C	35	178-1032-78	0.01uF	R	10	111-2711-91	1/4WS 270Ω	1			
С	36	178-4732-78	0.047uF	R	11	117-8231-10	1/10W 82kΩ	1			

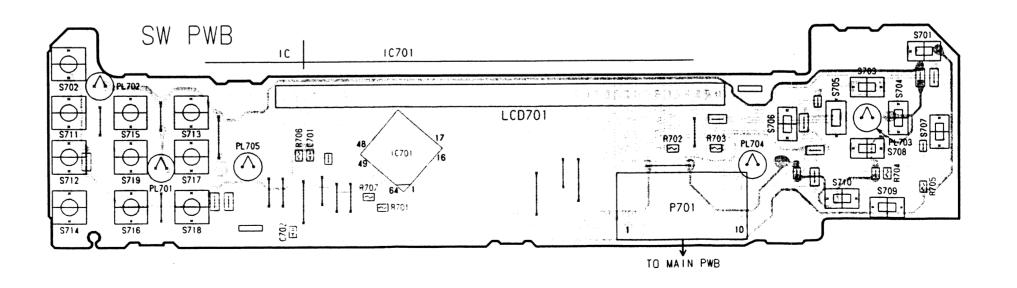
■CIRCUIT DIAGRAM 1/3

SW PWB section

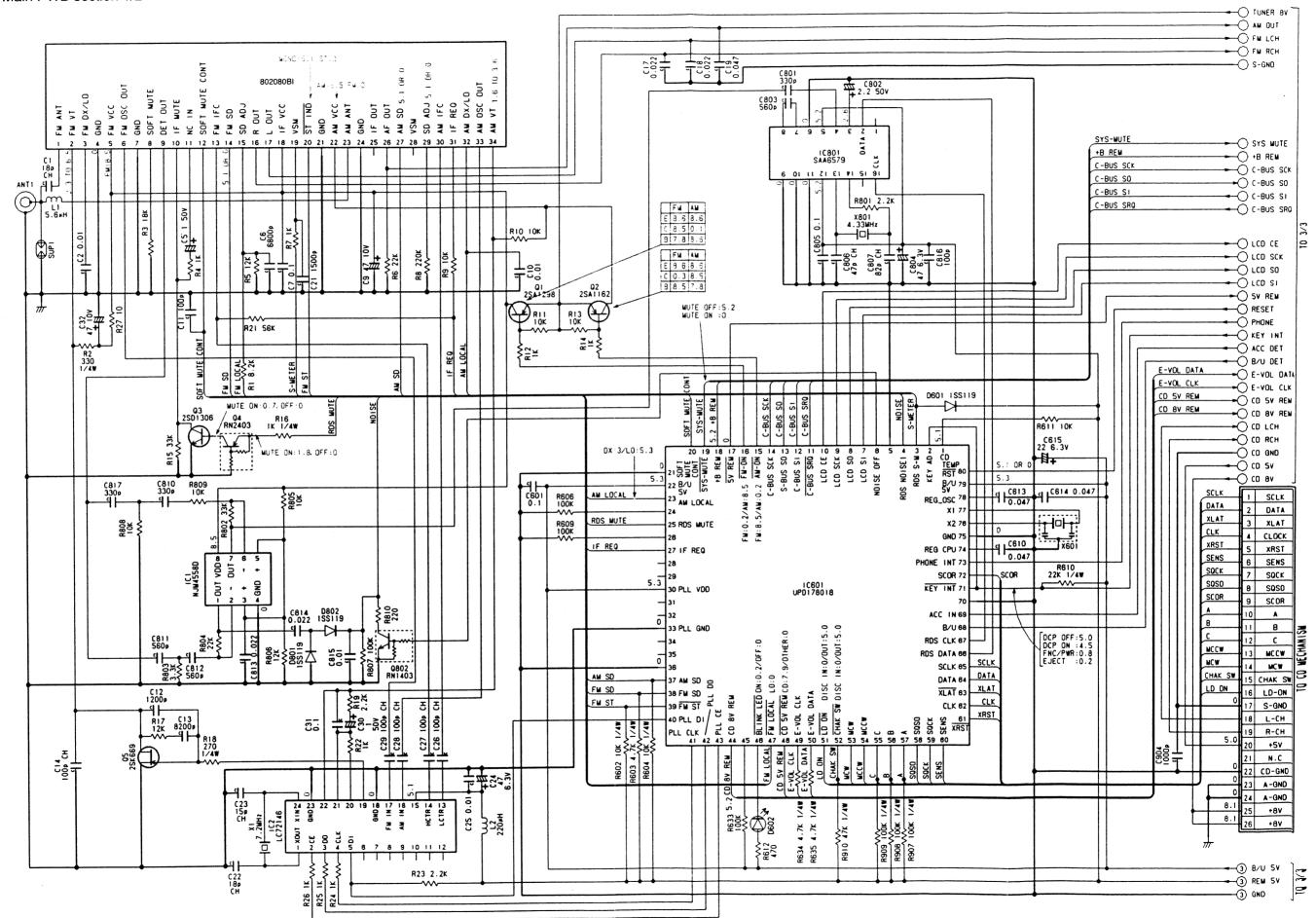


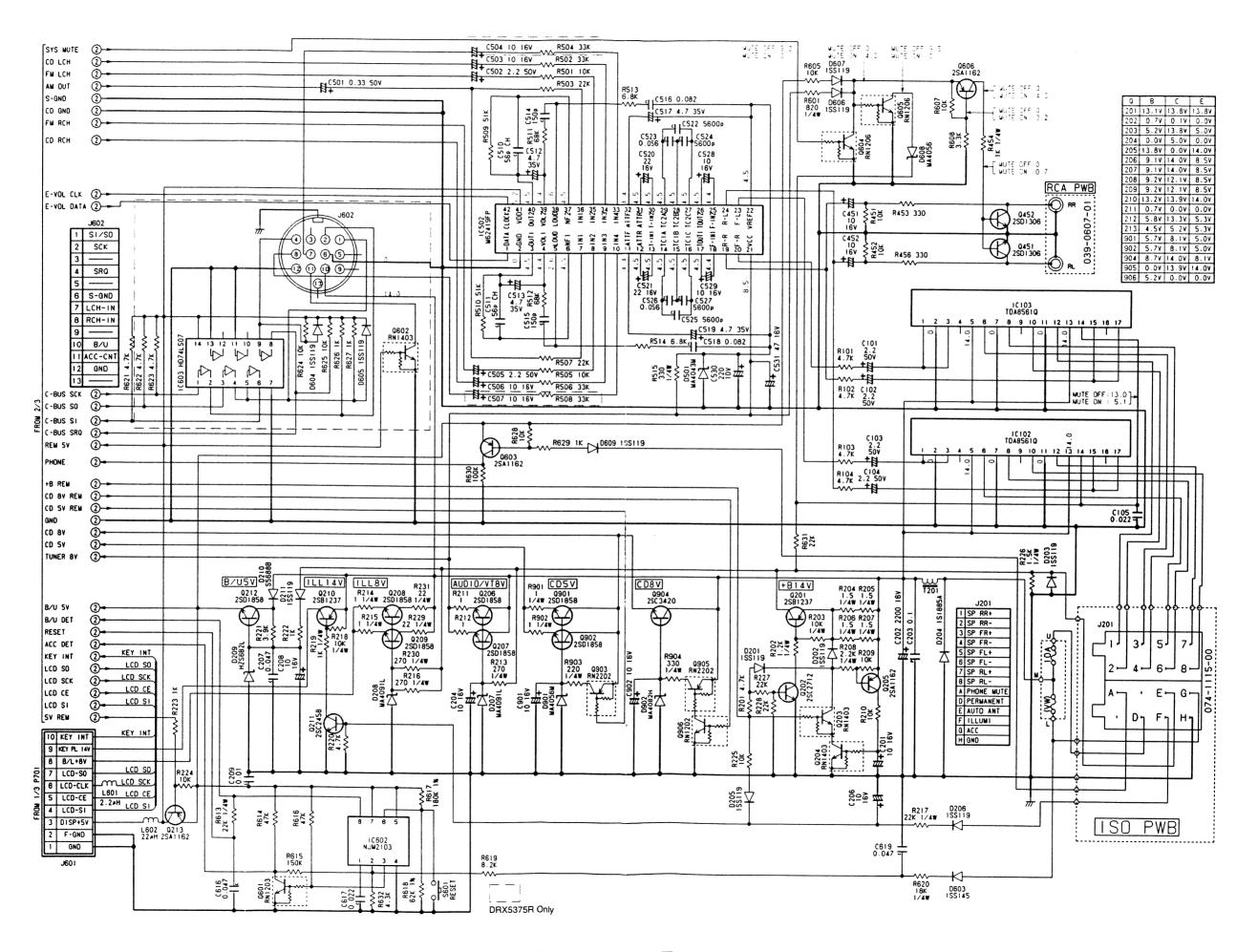
■ PRINTED WIRING BOARD

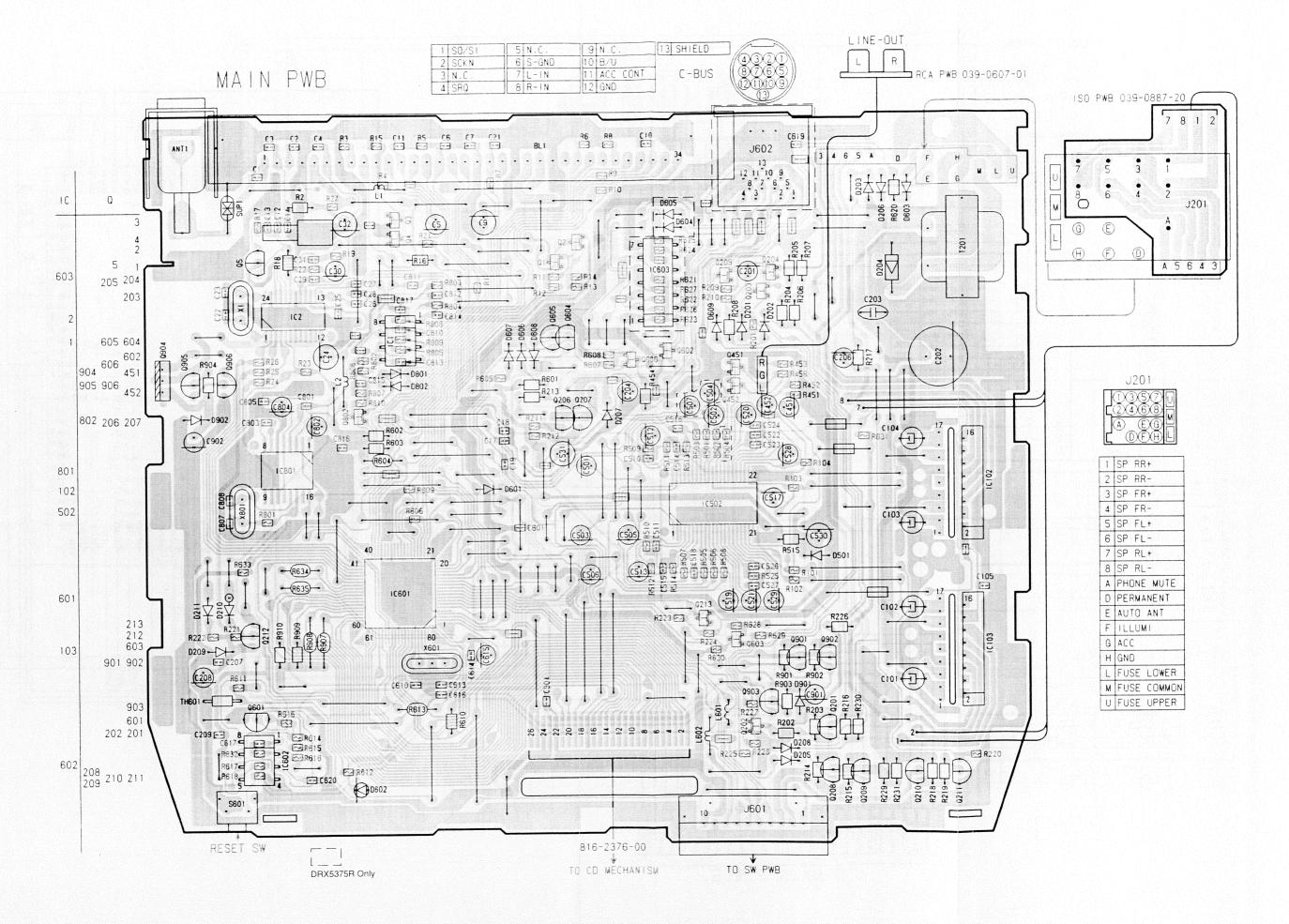
SW PWB section

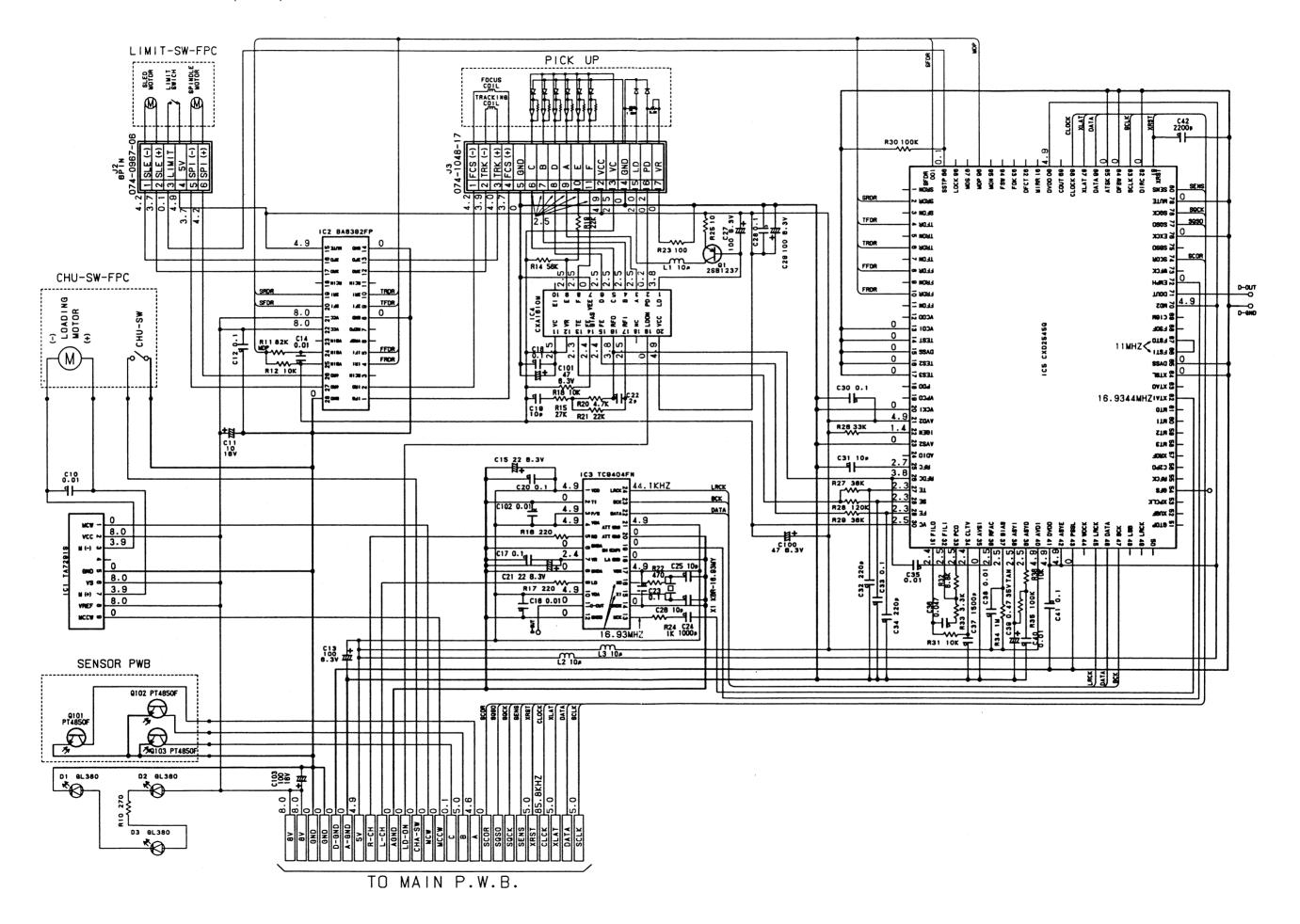


-11-

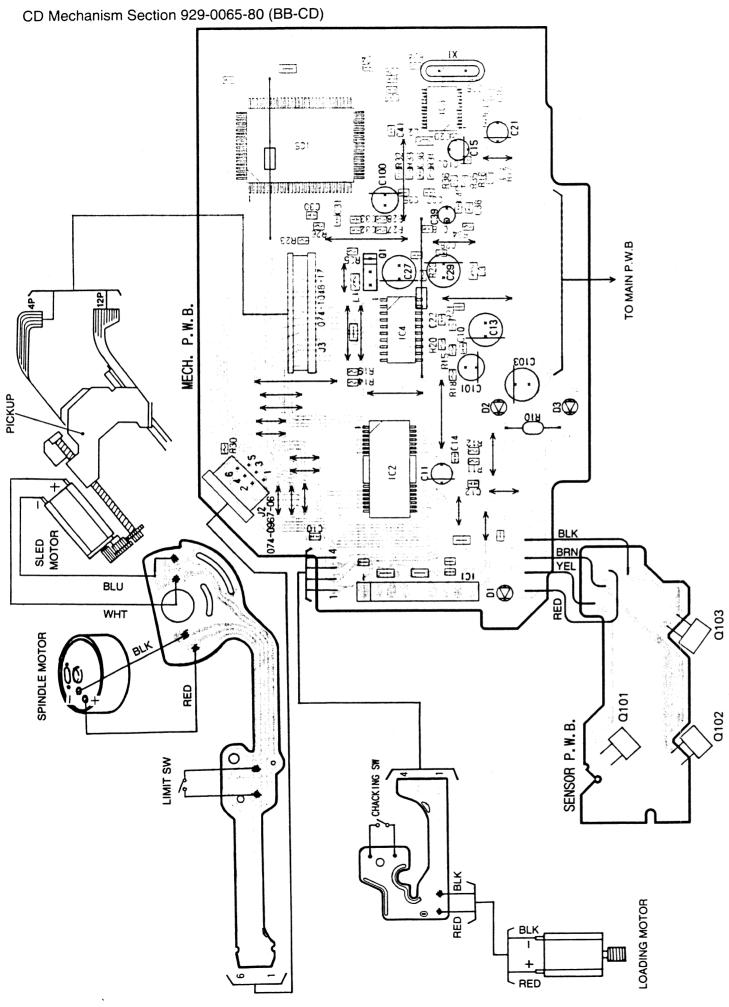








■PRINTED WIRING BOARD



■EXPLODED VIEW

CD Mechanism Section 929-0065-80 (BB-CD)

NO.	PART NO	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'T'
1	966-0308-06	CHASSIS ASS'Y	1	46	750-3090-02	RO-SPRING-L	11
2	966-0309-04	L-DISC-G-ASS'Y	1	47	750-3091-03	RO-SPRING-R	1
3	966-0310-06	SFT-P-CH-ASS'Y	1	48	750-3092-03	SHIFT SPRING	1
4	HBS-430-100	GEAR-SUB-ASS'Y	1	49	750-3094-00	S-ARM SPRING	1
5	966-0312-06	SHIFT-P-ASS'Y	1	50	750-3096-01	DR-SPRING-R	1
6	SMA-147-100	MOTOR ASS'Y(LOADING)	1	51	750-3098-00	L-LINK SPRING	2
7	966-0358-01	DRIVE-L-PL-ASS'Y	1	52	750-3164-00	DR-SPRING-LR	1
8	966-0359-03	SIDE-L-PL-ASS'Y	1	53	750-3188-00	DR-SP-F-B	1
9	HBS-431-100	PWB ASS'Y	1	54	750-3189-00	SIDE-L-SPRING	1
10	HBS-432-100	LS-GEAR ASS'Y	1	55	750-3201-00	DR-SPRING-F-R	1
11	SMA-146-100	MOTOR ASS'Y(SLED)	1	56	750-3202-00	CENTER SPRING-B	1
12	SMA-151-100	MOTOR ASS'Y(SPINDLE)	1	57	800-4904-60	VINYL COAT WIRE(BLK)	1
13	716-1733-00	SCREW	2	58	800-4910-60	VINYL COAT WIRE(BLK)	1
14	013-3879-01	CHACKING SWITCH	1	59	801-4910-60	VINYL COAT WIRE(BRN)	1
15	039-0586-01	FLEXIBLE PWB	1	60	802-4904-60	VINYL COAT WIRE(RED)	1
16	039-0588-01	SENSOR PWB	1	61	802-4910-60	VINYL COAT WIRE(RED)	1
17	060-0252-01	PHOTO TR (PT4850F)	3	62	804-4910-60	VINYL COAT WIRE(YEL)	1
18	345-7513-01	CLAMPER SHEET	1	63	816-2372-00	VINYL COAT WIRE(BLU)	1
19	345-7514-00	S-PEB-SHEET	1	64	816-2373-00	VINYL COAT WIRE(WHT)	1
20	620-0485-03	FRONT PLATE	1	65	013-7100-00	LIMIT SWITCH	1
21	620-0488-01	S-L-LINK PLATE	1	66	620-0198-03	CLAMPER PLATE	1
22	620-0489-01	MOTOR PLATE	1	67	620-0491-02	SPRING PLATE	1
23	620-0492-01	MOTOR BRACKET	1	68	620-0690-00	RATTLE PLATE	1
24	620-0691-03	MECHA BRACKET	1	69	621-0205-02	CLAMPER PLATE	1
25	621-0242-02	U-DISC GUIDE	1	70	621-0251-02	LOCK LINK	1
26	621-0243-02	ROLLER SLEEVE	2	71	621-0252-03	DISC STOPPER	1
27	621-0248-06	RACK GEAR	1	72	621-0253-01	MOTOR HOLDER	1
28	621-0249-02	ROLLER GEAR	1	73	621-0255-02	SECOND GEAR	1
29	621-0250-01	DAMPER HOLDER	4	74	621-0257-05	SCREW HOLDER	1
30	621-0258-03	LOADING ROLLER	2	75	621-0357-01	PICKUP GUIDE	1
31		ROLER SHAFT	1	76	621-0358-02	LS-HOLDER-F	1
32	+	SHIFT ROLLER	1	77	621-0359-02	LS-HOLDER-R	1
33	629-0058-00	DAMPER-DL	4	78	622-1073-02	CLAMPER ROLLER	1
34	714-2003-81	MACHINE SCREW(M2X3)	18	79	716-0675-00	SCREW	2
35	+	MACHINE SCREW(M2.6X3)	5	80	716-1555-00	WAVE SCREW	1
36	716-1468-00	SCREW	4	81	732-2004-11	SEMS SCREW	2
37	716-1507-00	 	2	82	739-1735-17	PRECISION SCREW	2
38	716-1670-00	SCREW	6	83	750-3097-02	CLAMPER SPRING	1
39	716-1677-00	SCREW	1	84	750-3099-00	ES-SPRING	1
40	716-1704-00		1	85	746-0761-00		2
41	716-1742-00		1	86		STOP LINK ASS'Y	1
42	743-1500-10		3	87		DR-PLATE ASS'Y	1
43	746-0712-03		1	88		SIDE PLATE ASS'Y	1
44	746-0762-00	 	1	89		CLAMP LINK ASS'Y	- <u>+-</u> -
45	746-0877-02		2	90		PICKUP UNIT ASS'Y	

DRX5375R/DRB4475R

